PART 1 - GENERAL

1.01. RELATED WORK DESCRIBED ELSEWHERE

- A. The provisions and intent of the Contract, including the General and Supplemental Conditions apply to this Work as if specified in this Section. Work related to this Section is described throughout these Specifications.
- B. Individual submittals are required in accordance with the General Conditions and pertinent Sections of these Specifications.

1.02. PAYMENT PROCEDURES

- A. Monthly pay estimates shall be addressed to Mike Johnson, Contracts Administrator, and mailed to Port of Grays Harbor, P.O. Box 660, Aberdeen, Washington 98520-0141 or hand delivered to the Port Administration Building, 111 South Wooding, Aberdeen, Washington, or via invoice submitted electronically using Adobe PDF file format. E-mail the PDF file to mjohnson@portgrays.org.
- B. Monthly pay estimates shall clearly identify the work performed for the given time period based on a percentage of work completed for lump-sum bid items and actual quantities installed for unit price items. Pay estimates shall be subject to the requirements of the General Conditions of this Contract and reviewed by the Port.

1.03. PAYMENT PRICING

- A. Pricing for the various lump-sum or unit prices in the Bidding Schedule, as further specified herein, shall include all compensation to be received by the Contractor for furnishing all tools, equipment, supplies, and manufactured articles, and for all labor, operations, and incidentals appurtenant to the items of work being described, as necessary to complete the various items of the Work in accordance with the requirements of the Contract Documents.
- B. Pricing shall also include all costs of compliance with the regulations of public agencies having jurisdiction, including safety and health requirements of the Occupational Safety and Health Administration of the U.S. Department of Labor (OSHA).
- C. No separate payment will be made for any item that is not specifically set forth in the Bid Form; and all costs, therefore, shall be included in the prices named in the Bid Form for the various appurtenant items of work.

- D. All other work not specifically mentioned in the measurement and payment sections identified below shall be considered incidental to the work performed and shall be merged into the various unit and lump-sum prices bid. Payment for work under one item will not be paid for under any other item.
- E. The Port of Grays Harbor reserves the right to make changes should unforeseen conditions necessitate such changes. Where work is on a unit price basis, the actual quantities occasioned by such changes shall govern the compensation.

1.04. MEASUREMENT FOR PAYMENT

Measurement for payment will be at the Lump-Sum or Unit Price as stipulated in the Bid Form for the items listed below. Payment shall be considered full compensation to the Contractor for furnishing all labor, materials, and equipment to complete the Work specified.

Bid Item No. 1 – MOBILIZATION AND DEMOBILIZATION – LUMP SUM

- A. Payment for Mobilization and Demobilization shall be for preparatory work and operations, including, but not limited to, those necessary for the movement of Contractor personnel, equipment, supplies, and incidentals to the project site; for the establishment of its offices, buildings, and other facilities necessary for work on the Project; for premiums on bonds and insurance for the Project and for other work and operations, which it must perform or costs it must incur before beginning production work on the various items on the Project Site.
- B. Mobilization and Demobilization shall be paid at the lump-sum price listed in the Bid Form, but shall not exceed 10 percent of the total bid excluding sales tax. Incremental payment shall be made as follows.
 - 1. 40% after 5% completion of the total contract amount contained in Bid Items 2 through 30.
 - 2. 40% after 20% completion of the total contract amount contained in other bid items.
 - 3. 20% after completion of all work, including punchlist items, cleanup, and acceptance of the project by the Port.
- C. Execute the Mobilization and Demobilization as required by the various Sections of Division 0, Division 1, and other parts of the Contract Documents.

Bid Item No. 2 - CONSTRUCTION SURVEY SUPPORT - LUMP SUM

- A. Payment for Construction Survey Support shall be for all work necessary for licensed surveying, including verifying survey reference points, and conducting pre-construction, progress, and post-construction surveys, and locating utilities.
- B. Construction Survey Support will be made at the lump-sum price listed in the Bid Form. Incremental payment for completed work shall be a quantity, determined by the Port, payable in monthly progress payments proportional to the work completed.

Bid Item No. 3 – UPLAND DEMOLITION AND DEBRIS REMOVAL – LUMP SUM

- A. Payment for Upland Demolition and Debris Removal, shall be full compensation for the cost of labor, materials, tools, equipment, and incidentals required for pavement sawcutting, demolition and disposal of all structures, structural elements, and debris as noted on the Drawings and defined in these Specifications. Included are the requirements as noted on the Drawings, defined in these Specifications, and as accepted by the Port.
- B. Upland Demolition shall be paid at the lump-sum price listed in the Bid Form. Incremental payment for completed work shall be a quantity, determined by the Port, payable in monthly progress payments proportional to the work completed.

Bid Item No. 4 – TEMPORARY EROSION AND SEDIMENTATION CONTROL – LUMP SUM

- C. Payment for Temporary Erosion and Sedimentation Control, shall be full compensation for the cost of labor, materials, tools, equipment, and incidentals required to provide and maintain the temporary erosion and sedimentation control throughout the project. The work includes full compensation for the cost of labor, materials, tools, equipment and incidentals required to comply with the regulations of the State of Washington, local jurisdictions, and as described in these specifications.
- D. Temporary Erosion and Sedimentation Control will be paid at the lump sum price listed in the bid form. Incremental payment for completed work shall be a percentage determined by the Port, payable in monthly progress payments proportional to the work completed.

Bid Item No. 5 – HAUL AND DISPOSE OF EXCESS AND UNSUITABLE MATERIAL – CUBIC YARD

- A. Payment for Haul and Dispose of Excess and Unsuitable Material, shall be full compensation for the cost of labor, materials, tools, equipment, and incidentals required to haul, segregate, stockpile and dispose of all excess or unsuitable material to a proper location.
- B. Haul and Dispose of Excess and Unsuitable Material shall be paid at the bank cubic yard unit price listed in the Bid Form. Incremental payment for completed work shall be a percentage determined by the Port, payable in monthly progress payments proportional to the work completed.

Bid Item No. 6 - EARTHWORK - LUMP SUM

- A. Payment for Earthwork, shall be full compensation for the cost of labor, materials, tools, equipment, and incidentals required to clear and grub, excavate, fill, rough and fine grade, proof roll, compact and test to prepare the subgrade as shown on the Drawings, as defined in the Specifications, and as accepted by the Port. Earthwork shall also include segregate, stockpile, and reuse of suitable excavated material for fill and backfill as defined in these specifications and on the drawings.
- B. Earth Work, shall be paid at the lump sum unit price listed in the Bid Form. Incremental payment for completed work shall be a quantity, determined by the Port, payable in monthly progress payments proportional to the work completed.

Bid Item No. 7 – TRENCH SAFETY SYSTEMS/ SHORING – LUMP SUM

- A. Payment for Trench Safety Systems/ Shoring shall be full compensation for the cost of labor, materials, tools, equipment and incidentals required to comply with the regulations of the State of Washington for trench depths in excess of four (4) feet. Costs shall also include furnishing, installing, maintaining, and removal of all temporary shoring and bracing systems.
- B. Trench Safety Systems/ Shoring will be paid at the lump sum price listed in the bid form. Incremental payment for the completed work shall be a quantity determined by the Port, payable in monthly progress payments, proportional to the work completed.

Bid Item No. 8 – TURBIDITY CURTAIN AND SILT FENCE – LUMP SUM

A. Payment for Turbidity Curtain and Silt Fence, shall be full compensation for the cost of labor, materials, tools, equipment, and incidentals required for furnishing and placing and maintaining the Turbidity Curtain and Silt

- Fence as noted on the Drawings, defined in these Specifications and as accepted by the Port.
- B. Turbidity Curtain and Silt Fence shall be paid at the lump sum price listed in the Bid Form. Incremental payment for completed work shall be a quantity, determined by the Port, payable in monthly progress payments proportional to the work completed.

Bid Item No. 9 - DEMOLITION OF EXISTING RAMP - LUMP SUM

- A. Payment for Demolition of Existing Ramp, shall be full compensation for the cost of labor, materials, tools, equipment, and incidentals required for salvaging, demolition and disposal of all existing ramp panels and the existing slab on grade as noted on the Drawings, defined in these Specifications and as accepted by the Port.
- B. Demolition of Existing Ramp shall be paid at the lump sum unit price listed in the bid form. Incremental payment for completed work shall be a quantity, determined by the Port, payable in monthly progress payments proportional to the work completed.

Bid Item No. 10 - UPLAND BASE COURSE AGGREGATES - TON

- A. Payment for Upland Base Course Aggregates shall be full compensation for the cost of labor, materials, tools, equipment, and incidentals for preparing the base, furnishing the materials including hauling, blending, placement, grading to the specified elevations, compacting and shaping the material to provide a complete base conforming to the lines and grades as shown on the Drawings, defined in these Specifications, and as accepted by the Port.
- B. Upland Base Course Aggregates shall be paid at the per ton unit price listed in the Bid Form. The quantity shall be measured from certified weight tickets submitted to the Port at the time of delivery.

Bid Item No. 11 - HOT MIX ASPHALT PAVING - TON

- A. Payment for Hot Mix Asphalt Paving shall be full compensation for the cost of labor, materials, tools, equipment, and incidentals required to construct the hot-mix asphalt paving, including joint sealants, tack coats and all associated work items otherwise measured and paid for under this section and as shown on the Drawings, defined in these specifications, and as accepted by the Port.
- B. Hot Mix Asphalt Paving quantity for payment shall be the tons of asphalt installed as determined from volume of asphalt in place and compacted to the neat lines indicated on the Drawings or as measured by the Port.

Tons shall be calculated by multiplying the measured volume by a factor of 0.488 CY/TON and shall be verified from weight tickets collected on-site.

Bid Item No. 12 - STRIPING AND PAVEMENT MARKINGS - LUMP SUM

- A. Payment for Striping and Pavement Markings, shall be full compensation for the cost of labor, materials, tools, equipment, and incidentals required for furnishing and installing the striping as noted on the Drawings, defined in these Specifications and as accepted by the Port.
- B. Striping and Pavement Markings shall be paid at the lump sum unit price listed in the bid form. Incremental payment for completed work shall be a quantity, determined by the Port, payable in monthly progress payments proportional to the work completed.

Bid Item No. 13 – WATER SYSTEM EXTENSION – LUMP SUM

- A. Payment for Water System Extension, shall be full compensation for the cost of labor, materials, tools, equipment, and incidentals required for furnishing, installing, disinfecting, and testing complete in place water lines and appurtenances including valves and thrust blocks as shown on the Drawings, in the Specifications and as accepted by the Port.
- B. Water System Extension shall be paid at the lump sum listed in the bid form. Incremental payment for completed work shall be a quantity, determined by the Port, payable in monthly progress payments proportional to the work completed.

Bid Item No. 14 – SANITARY SEWER – LUMP SUM

- A. Payment for Sanitary Sewer, shall be full compensation for the cost of labor, materials, tools, equipment, and incidentals required for furnishing and installing the sewer pipe, manholes, cleanouts and fittings complete in place, to include but not limited to flushing, testing, video tape as shown on the Drawings, in the Specifications and as accepted by the Port.
- B. Sanitary Sewer shall be paid at the lump sum unit price listed in the bid form. Incremental payment for completed work shall be a quantity, determined by the Port, payable in monthly progress payments proportional to the work completed.

Bid Item No. 15 - STORMWATER SYSTEM - LUMP SUM

A. Payment for Stormwater System, shall be full compensation for the cost of labor, materials, tools, equipment, and incidentals required for furnishing,

installing, and adjusting to grade complete in place catch basins, treatment systems, piping and trench drains as shown on the Drawings, in the Specifications and as accepted by the Port. This payment shall also include excavation, crushed stone foundation bedding, structural fill, backfill, compactions, cast-in-place concrete, steel reinforcement, grade rings, storm drain pipe, storm drain pipe connection, frames and grates.

B. Stormwater System shall be paid at the lump sum unit price listed in the bid form. Incremental payment for completed work shall be a quantity, determined by the Port, payable in monthly progress payments proportional to the work completed.

Bid Item No. 16 – EXTRUDED CURB – LINEAL FOOT

- A. Payment for Extruded Curb, shall be full compensation for the cost of labor, materials, tools, equipment, and incidentals required to construct concrete extruded curbs as shown on the Drawings, in the Specifications and as accepted by the Port.
- B. Extruded Curb shall be paid at the lineal foot unit price listed in the bid form. Incremental payment for completed work shall be a quantity, determined by the Port, payable in monthly progress payments proportional to the work completed.

Bid Item No. 17 - CONCRETE BARRIERS - LUMP SUM

- A. Payment for Concrete Barriers, shall be full compensation for the cost of labor, materials, tools, equipment, and incidentals required for furnishing, installing, removal and replacement of existing concrete barriers as shown on the Drawings, in the Specifications and as accepted by the Port.
- B. Concrete Barriers shall be paid at the lump sum unit price listed in the bid form. Incremental payment for completed work shall be a quantity, determined by the Port, payable in monthly progress payments proportional to the work completed.

Bid Item No. 18 – SIGNAGE – LUMP SUM

- A. Payment for Signage, shall be full compensation for the cost of labor, materials, tools, equipment and incidentals required for furnishing and installing signs as shown on the Drawings, in the Specifications and as accepted by the Port.
- B. Signage shall paid at the lump sum unit price listed in the bid form.

 Incremental payment for completed work shall be a quantity, determined

by the Port, payable in monthly progress payments proportional to the work completed.

Bid Item No. 19 – RESTROOM CONCRETE FOUNDATIONS AND SIDEWALK – LUMP SUM

- A. Payment for Restroom Concrete Foundations and Sidewalk, shall be full compensation for the cost of labor, materials, tools, equipment, and incidentals required to construct concrete foundations, sidewalks, connection of utilities, and install and secure the restroom structure per the manufacture recommendations, and as shown on the Drawings, in the Specifications and as accepted by the Port.
- B. Restroom Concrete Foundations and Sidewalk shall be paid at the lump sum unit price listed in the bid form. Incremental payment for completed work shall be a quantity, determined by the Port, payable in monthly progress payments proportional to the work completed.

Bid Item No. 20 - REPAIR LANDSCAPING - LUMP SUM

- A. Payment for Repair Landscaping, shall be full compensation for the cost of labor, materials, tools, equipment, and incidentals required to repair the landscaping as shown on the Drawings, in the Specifications and as accepted by the Port.
- B. Repair Landscaping shall be paid at the lump sum unit price listed in the bid form. Incremental payment for completed work shall be a quantity, determined by the Port, payable in monthly progress payments proportional to the work completed.

Bid Item No. 21 - ELECTRICAL AND LIGHTING - LUMP SUM

- A. Payment for Electrical and Lighting, shall be full compensation for the cost of labor, materials, tools, equipment, and incidentals required to remove existing light fixtures, furnish and install new light fixtures, poles, brackets and utilities as shown on the Drawings, in the Specifications and as accepted by the Port. This payment shall also include excavation for the concrete light pole base, conduit trenching and backfill with sand bedding, and installing new panels.
- B. Electrical and Lighting shall be paid at the lump sum unit price listed in the bid form. Incremental payment for completed work shall be a quantity, determined by the Port, payable in monthly progress payments proportional to the work completed.

Bid Item No. 22 - MARINE EARTHWORK - CUBIC YARD

- A. Payment for Marine Earthwork at Toe of Ramp, Under Cast-In-Place Concrete Slab, Pre-Cast Panels, Cast-In-Place Concrete Abutment and at Sides, shall be full compensation for the cost of labor, materials, tools, equipment, and incidentals required for the excavation of slope to the new location and disposal of all unused or unsuitable materials as noted on the Drawings, defined in these Specifications, and as accepted by the Port.
- B. Marine Earthwork at Toe of Ramp, Under Panels and at Sides, shall be paid at the bank cubic yard unit price listed in the Bid Form. Incremental payment for completed work shall be a quantity, determined by the Port, payable in monthly progress payments proportional to the work completed.

Bid Item No. 23 – GRAVEL BEDDING FOR PRECAST PANELS AND CAST-IN-PLACE SLAB – TON

- A. Payment for Gravel Bedding for Precast Panels and Cast-In-Place Slab shall be full compensation for the cost of labor, materials, tools, equipment, and incidentals for the base, furnishing the materials including hauling, blending, placement, grading to the specified elevations, compacting and shaping the material to provide a complete base conforming to the lines and grades as shown on the Drawings, defined in these Specifications, and as accepted by the Port.
- B. Gravel Bedding for Precast Panels and Cast-In-Place Slab will be paid at the per ton unit price listed in the Bid Form. The quantity shall be measured from certified weight tickets submitted to the Port at the time of delivery

Bid Item No. 24 – FURNISH 16-INCH-DIAMETER GUIDE PILES – LINEAR FOOT

- A. Payment for Furnish 16-Inch-Diameter Steel Pipe Guide Piles shall be full compensation for the cost of labor, materials, tools, equipment, and incidentals including hot-dip galvanizing required to furnish to the site the 16-inch steel pipe piles as shown on the Drawings and defined in these Specifications.
- B. Furnish 16-Inch-Diameter Steel Pipe Guide Piles shall be paid at the unit price listed in the Bid Form. Payment will be made for the total length of piles furnished from tip to cutoff as shown on the Drawings and shall include costs for any additional order length. Incremental payment for completed work shall be a quantity, determined by the Port, payable in monthly progress payments proportional to the work completed.

Bid Item No. 25 – INSTALL 16-INCH-DIAMETER STEEL PIPE GUIDE PILES – EACH

- A. Payment for Install 16-Inch-Diameter Steel Pipe Guide Piles shall be full compensation for the cost of labor, materials, tools, equipment, and incidentals required to handle, install, cut-off and dispose of cut-off pile portions of the 16-inch-diameter steel pipe piles as shown on the Drawings, as defined in these Specifications, and as accepted by the Port.
- B. Install 16-Inch-Diameter Steel Pipe Guide Piles shall be paid at the unit price listed in the Bid Form. Incremental payment for completed work shall be a quantity, determined by the Port, payable in monthly progress payments proportional to the work completed.

Bid Item No. 26 – FURNISH 10-INCH-DIAMETER STEEL PIPE GROUNDING PILES – LINEAR FOOT

- A. Payment for Furnish 10-Inch-Diameter Steel Pipe Grounding Piles shall be full compensation for the cost of labor, materials, tools, equipment, and incidentals including hot-dip galvanizing and high performance coating required to furnish to the site the 10-inch steel pipe piles as shown on the Drawings and defined in these Specifications.
- B. Furnish 10-Inch-Diameter Steel Pipe Grounding Piles shall be paid at the unit price listed in the Bid Form. Payment will be made for the total length of piles furnished tip to cutoff as shown on the Drawings and shall not include costs for the additional order length. Incremental payment for completed work shall be a quantity, determined by the Port, payable in monthly progress payments proportional to the work completed.

Bid Item No. 27 – INSTALL 10-INCH-DIAMETER STEEL PIPE GROUNDING PILES – EACH

- A. Payment for Install 10-Inch-Diameter Steel Pipe Grounding Piles shall be full compensation for the cost of labor, materials, tools, equipment, and incidentals required to handle, install, cut-off and dispose of cut-off pile portions of the 10-inch-diameter steel pipe piles as shown on the Drawings, as defined in these Specifications, and as accepted by the Port.
- B. Install 10-Inch-Diameter Steel Pipe Grounding Piles shall be paid at the unit price listed in the Bid Form. Incremental payment for completed work shall be a quantity, determined by the Port, payable in monthly progress payments proportional to the work completed.

Bid Item No. 28 – FURNISH AND INSTALL PILE CAPS AT STEEL GROUNDING PILES - EACH

- C. Payment for Furnish and Install Pile Caps at Steel Piles shall be full compensation for the cost of labor, materials, tools, equipment, and incidentals required to furnish and install the plastic lumber pile caps, plastic pile shims, steel cap plates, steel bars and plates, connections, and hardware as shown on the Drawings, as defined in these Specifications, and as accepted by the Port.
- D. Furnish and Install Pile Caps at Steel Piles shall be paid at the each unit price listed in the Bid Form. Incremental payment for completed work shall be a quantity, determined by the Port, payable in monthly progress payments proportional to the work completed.

Bid Item No. 29 - FURNISH PRECAST CONCRETE FLOATS - LUMP SUM

- A. Payment to Furnish Precast Concrete Floats shall be full compensation for the cost of labor, materials, tools, equipment, and incidentals required to design, fabricate, and transport to the site Precast Concrete Floats as shown on the Drawings and defined in these Specifications. This payment shall include timber wales, side mounted pile frames, cleats, bent transition plates, plastic lumber grounding boards, rub strips, and hand rails.
- B. Furnish Precast Concrete Floats shall be paid at the unit price listed in the Bid Form. Incremental payment for completed work shall be a quantity, determined by the Port, payable in monthly progress payments proportional to the work completed.

Bid Item No. 30 - INSTALL PRECAST CONCRETE FLOATS - LUMP SUM

- A. Payment to Install Precast Concrete Floats shall be full compensation for the cost of labor, materials, tools, equipment, and incidentals required to handle, assemble, and install at the site Precast Concrete Floats as shown on the Drawings, as defined in these Specifications, and as accepted by the Port.
- B. Install Precast Concrete Floats shall be paid at the unit price listed in the Bid Form. Incremental payment for completed work shall be a quantity, determined by the Port, payable in monthly progress payments proportional to the work completed.

Bid Item No. 31 – FURNISH AND INSTALL STEEL GUIDE FRAME – LUMP SUM

- A. Payment to Furnish and Install Steel Guide Frame shall be full compensation for the cost of labor, materials, tools, equipment, and incidentals required to design, fabricate, and transport to the site the Steel Guide Frame as shown on the Drawings and defined in these Specifications. This payment shall include steel wide flange beams, steel plate, and all hardware necessary for a complete installation.
- B. Furnish and Install Steel Guide Frame shall be paid at the lump sum unit price listed in the Bid Form. Incremental payment for completed work shall be a quantity, determined by the Port, payable in monthly progress payments proportional to the work completed.

Bid Item No. 32 – FURNISH AND INSTALL PRECAST CONCRETE PANELS – LUMP SUM

- A. Payment to Furnish and Install Precast Concrete Panels shall be full compensation for the cost of labor, materials, tools, equipment, and incidentals required to handle, assemble, and install at the site the Precast Concrete Panels as shown on the Drawings, as defined in these Specifications, and as accepted by the Port. In addition this payment shall include all steel plates, steel bars and all hardware necessary for the procurement and complete installation of the panel connections as shown on the Drawings and as defined in these specifications.
- B. Furnish and Install Precast Concrete Panels shall be paid at the lump sum unit price listed in the Bid Form. Incremental payment for completed work shall be a quantity, determined by the Port, payable in monthly progress payments proportional to the work completed.

Bid Item No. 33 – FURNISH AND INSTALL CAST-IN-PLACE CONCRETE SLAB – CUBIC YARD

- A. Payment to Furnish and Install Cast-In-Place Concrete Slab shall be full compensation for the cost of labor, materials, tools, equipment, and incidentals required to install and remove formwork, install reinforcement and hardware, place concrete, finish and cure concrete as shown on the Drawings and defined in these Specifications, and as accepted by the Port.
- B. Furnish and Install Cast-In-Place Concrete Slab shall be paid at the cubic yard unit price listed in the Bid Form. Incremental payment for completed work shall be the quantity, determined by the Port, payable in monthly progress payments proportional to the work completed.

Bid Item No. 34 – FURNISH AND INSTALL CAST-IN-PLACE CONCRETE ABUTMENT – LUMP SUM

- A. Payment to Furnish and Install Cast-In-Place Concrete Abutment shall be full compensation for the cost of furnish to the site, labor, materials, tools, equipment, and incidentals required to place quarry spalls, permeable ballast, install and remove formwork, install reinforcement and hardware, place concrete, finish and cure concrete as shown on the Drawings and defined in these Specifications and as accepted by the Port.
- B. Furnish and Install Cast-In-Place Abutment shall be paid at the unit price listed in the Bid Form. Incremental payment for completed work shall be the quantity, determined by the Port, payable in monthly progress payments proportional to the work completed.

Bid Item No. 35 – ALL OTHER WORK NOT INCLUDED IN ITEMS 2 THROUGH 34 – LUMP SUM

- A. Payment for All Other Work Not Included in Items 2 through 34 shall be full compensation for the cost of labor, materials, tools, equipment, and incidentals to complete items of work not covered in Bid Items 2 through 34 and that are required to complete the facility as shown on the Drawings and as defined in these Specifications.
- B. All Other Work Not Included in Items 2 through 34 shall be paid at the lump-sum price listed in the Bid Form. Incremental payment for completed work shall be a quantity, determined by the Port based on the percentage of the total project work completed, payable in monthly progress payments proportional to the work completed.

END OF SECTION